

HUZALSKI, I.

Mental characteristics of the first aid worker. Acta nerv. sup.
(Praha) 6 no.4:408 '64.

1. Hornicka psychologicka laborator, Bytom.

BUZAN^o, K.T., dotsent.

Making prestressed concrete beams having anchored reinforcement.

Stroi.prom. 33 no.3:8-10 Mr '55.

(MIRA 8:5)

1. Khar'kovskiy inzhenerno-stroitel'nyy institut.
(Girders) (Concrete, Prestressed)

L 1120-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/GS

ACCESSION NR: AT5020480

UR/0000/64/000/000/0335/0343

AUTHORS: Strikha, V. I.; Buzaneva, Ye. V.

TITLE: Investigation of the magnitude of the potential barrier as a function of the contact potential differential in a point contact

SOURCE: Mezhevuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovodnikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. Poverkhnostnyye i kontaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 335-343

TOPIC TAGS: potential barrier, contact potential, cadmium, lead, zinc, aluminum, bismuth, indium, silicon diode, metal surface

ABSTRACT: The effect of the contact potential differential upon the magnitude of the potential barrier in a point friction contact between metals (Cd, Pb, Zn, Al, Bi, In) and silicon specimens was studied. The literature data on the subject are controversial, and the authors assume that this is due to the differences in surface conditions of the silicon in various experiments. Silicon specimens with boron impurities and with uniformly treated surfaces served as diodes in the present work. The contact potential differential was measured using a condenser

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L 1120-66

ACCESSION NR: AT5020480

method with application of a vibrating electrode. The magnitude of the potential barrier was determined as a temperature function of the diode resistance at a voltage extrapolated to zero. Prior to the main experiments, the pressure dependence of the magnitude of potential barrier and temperature dependence of the contact differential were determined. The former was found to be variable with an increased pressure in the contact point. A special setup was installed to stabilize the pressure. The contact potential differential was independent of the temperature. The changes in the work functions (contact potential differential) were 0.3-0.4 ev. The experimental setup for measuring the temperature function of the diode resistance is shown schematically. Data obtained on the dependence of the magnitude of potential barrier upon the contact potential differential are summarized on a graph. The experiments showed no conclusive dependence of the potential barrier (between the semiconductor and metal) upon the contact potential difference. The possibility of such dependence should not be neglected, however, during preparation of silicon point diodes. The results may be interpreted by assuming the presence on the surface of a discrete donor level having an energy location $(-9 \pm)kT$ and concentration of the order of 10^{13} cm^{-2} . Orig. art. has: 3 figures, 1 table, and 6 equations.

ASSOCIATION: none
 Cord 2/3

L 1120-66

ACCESSION NR: AT5020480

SUBMITTED: 06Oct64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 007

Card 3/3

ACC NR: AR6017147

SOURCE CODE: UR/0275/66/000/001/B006/B006

AUTHOR: Strikha, V. I.; Buzaneva, Ye. V.

TITLE: Investigation of the dependence of the point contact potential barrier level, on contact variation of the potentials

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 1B39

REF SOURCE: Sb. Poverkhnosti. i kontaktn. yavleniya v poluprovodnikakh. Tomsk, Tomskiy un-t, 1964, 335-343

TOPIC TAGS: electric potential, electrode potential

TRANSLATION: The effect of contact potential difference on the barrier potential level in point rubbing in contact metal-*p*-type silicon in various Si surface treatment processes was examined. The barrier potential level was determined by establishing the temperature dependent resistance of a diode at a voltage extrapolated to zero. The test was performed on Si with a mixture of B. It was found that, depending on the initial contact potential difference magnitude (or output performance) of the Si sample, the barrier potential level did or did not depend on the contact potential difference. Thus, in the case of a gold electrode of <0.2 v, the barrier potential level depended on the contact potential difference; in the case of contact potential difference > 0.4 v, the barrier potential level did not depend on contact potential difference. The

UDC: 539.293:546.28

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ACC NR: AR6017147

data obtained are explained in terms of present day concepts of the electronic structure of the Si surface. It was concluded that in manufacturing point contact diodes, it is necessary to consider the dependence of the barrier potential level on the contact potential difference.

SUB CODE: 09

Card 2/2

BUZANIC, M.

Why wool retains heat. p. 468. TEKSTIL (Društvo inženjera i
tekstilaca Hrvatske). Zagreb. Vol. 5, no. 6, June 1956

SOURCE: East Europe Accession List (EEAL),
Library of Congress, Vol 5, no. 11, Nov. 1956

BUZANOV, Aleksey Alekseyevich; PECHATIN, Aleksandr Aleksandrovich;
PALEYEV, N.M., red.; GRIGOR'YEVA, A.I., red.; KOROLEV, A.V.,
tekhn. red.

[Engine operator's textbook]Uchebnoe posobie motorista. Moskva,
Izd-vo DOSAAF, 1962. 291 p. (MIRA 16:2)
(Marine engines)

Buzanov, D.

BUZANOV, D.

Voiskovaia aviatsiia. S pred. Alksnisa. Izd. 2. Moskva, Gos.
voen. izd-vo, 1932. 82 p., illus.
Title tr.: Military aviation.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESSING AND PROPERTY INDEX																			
CA Peculiarities of nitrogenous nutrition of the sugar beet during the early stages of vegetation. I. P. Buzanov. <i>Vsesoyuz. Nauch.-Issledovatel. Inst. Sakharnoi Prom.</i> Osnovnye Vychody Nauch.-Issledovatel. Rabot V. N. I. S. S. R. 1936, 45-6(1937); <i>Khimiya i industriya</i> 42, 540.—They are the onset of photosynthesis, the germ and young shoots of beets not only do not require any nitrogenous food, but are adversely affected thereby. This explains why N introduced in the soil with sugar-beet seed lowers the crop yield as compared with the cases where the same quantity of N fertilizers was applied at the side of the seed. A. Patineau-Couture																			
COMMON ELEMENTS OPEN MATERIALS INDEX 130M 1316782A 000007																			
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION 130M 1316782A 000007																			
1ST AND 2ND ORDER										3RD AND 4TH ORDER									
GROUPS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																			

The physiological importance of postfertilizing of sugar beets. I. V. Buzganyayev. *Nauch. Zapiski VskhNIL Prom.* 15, No. 1-2, 194 (1944); *Chem. Zveste* 1939, 1, 4105. Postfertilizing of sugar beets with a complete mixt. of mineral fertilizer increased the growth and caused a more intensive formation of sugar. These effects, and in particular the latter, were more pronounced when org. fertilizer was used in combination with mineral fertilizer. In lab. expts. the sugar content of the beet was increased by 2-4%. Often postfertilizing produced a temporary reduction in the rate of transpiration. Large doses of whole mineral fertilizer earlier rendered the beets particularly capable of utilizing the fertilizer applied later. Postfertilizing both with org. fertilizer and with complete mineral fertilizer considerably reduced the content of injurious N in the beets. In the vegetation expts. this reduction amounted to 50-55%. This is of great importance in regard to the processing of the beets. The various kinds of sugar beets did not respond in the same manner to postfertilizing.

M. G. Moore

ASH-SLA - METALLURGICAL LITERATURE CLASSIFICATION

BUZANOV, I. F.

Beets and Beet Sugar

Means for increasing sugar content of the beet. Sakh. prom. 26 no. 6, June 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

BUZANOV, I. F.

Agronomy

Dissertation "Agrobiological Properties and Production Indicators of the
Sugar Beet in Connection With Climate." Dr Biol Sci, Inst of Plant
Physiology imeni K. A. Timiryazev, Acad Sci USSR, 24 Mar 54. (Vechernyaya
Moskva, Moscow, 15 Mar 54)

SO: SUM 213, 20 Sept 1954

YAKUSHKIN, Ivan Vyacheslavovich, red., BUZANOV, I.F., red.

[Sugar beets] Sakharnaya svekla. Izd. 3., perer. Moskva,
Sel'khozgiz, 1955. 190 p. (MIRA 14:4)
(Sugar beets)

SPIVAK, M.S., glavnyy redaktor; BILOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', O.G., redaktor; KRILOV, O.F., redaktor; PUKHAL'S'KIY, A.V., redaktor; SIDORENKO, O.P., redaktor; ~~FE~~CHENKO, O.N., redaktor; ANGELINA, P.M., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATSKA, G.E., redaktor; VASILENKO, A.O., redaktor; VLASYUK, P.A., redaktor; GORODNIY, M.G., redaktor; ~~DE~~MIDENKO, T.T., redaktor; DUBKOVETS'KIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNIY, M.O., redaktor; ~~PER~~SHIN, P.M., redaktor; POPOV, F.A., redaktor; POSMITNIY, M.O., redaktor; PSHENICHNIY, P.D., redaktor; RADCHENKO, B.P., redaktor; ~~PO~~MANENKO, S.S., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVS'KIY, O.N., redaktor; TSIBENKO, K.O., redaktor; SHCHERBINA, O.P., redaktor; KRAVCHENKO, M.F., tekhnichnyy redaktor

[Collective farm encyclopedia] Kolhospna vyrobnycha ensyklopedia.
Vyd. 2-e, perer. i dop. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi
lit-ry URSS. Vol.1. Abrykos - Liutserna. 1956. 756 p. (MIRA 9:9)
(Agriculture--Encyclopedias and dictionaries)

BUZANOV, I. F.

SPIVAK, M.S., glavnyy redaktor; BELOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', A.G., redaktor; KRYLOV, A.P., redaktor; PUKHAL'SKIY, A.V., redaktor; SIDORRKO, A.P., redaktor; FEDCHENKO, A.N., redaktor; ANGELINA, P.N., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATSKAYA, G.Ye., redaktor; VASILENKO, A.A., redaktor; VLASYUK, P.A., redaktor; GORODNIY, N.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETSKIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNNYY, M.Ye., redaktor; PERSHIN, P.N., redaktor; POPOV, F.A., redaktor; POSMITNYY, M.A., redaktor; PSHENICHNYY, P.D., redaktor; RADCHENKO, B.P., redaktor; ROMANENKO, I.N., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVSKIY, A.N., redaktor; TSYBENKO, K.Ye., redaktor; KOVAL'SKIY, V.F., tekhnicheskii redaktor

[Practical collective farm encyclopedia] Kolkhoznaya proizvodstvennaya entsiklopediya. Izd. 2-oe, ispr. i dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR. Vol. 1. Abrikos - liutserna. 1956. 688 p. (MLRA 10:9)
(Agriculture--Dictionaries)

Buzanov, I. F.

SPIVAK, M.S., glavnyy red.; BELOZUB, V.G., red.; VASILENKO, P.M., red.;
 ZORIN, I.G., red.; IL'CHENKO, I.K., red.; KOVAL', A.G., red.;
 KRYLOV, A.F., red.; PUKHAL'SKIY, A.V., red.; SIDORENKO, A.P.,
 red.; FEDCHENKO, A.N., red.; ANGELINA, P.N., red.; ~~BUZANOV, I.F.~~
 red.; BOYKO, D.V., red.; BURKATSKAYA, G.Ye., red.; VASILENKO, A.A.,
 red.; VIASYUK, P.A., red.; GORODNIY, N.G., red.; DEMIDENKO, T.T.,
 red.; DUBKOVETSKIY, F.I., red.; KIRICHENKO, F.G., red.; LITOVCHENKO,
 G.P., red.; OZERENYI, M.Ye., red.; PERSHIN, P.N., red.; POPOV, F.A.,
 red.; POSMITNYY, M.A., red.; PSHENICHNYY, P.D., red.; RADCHENKO,
 B.P., red.; ROMANENKO, I.N., red.; RUBIN, S.S., red.; SAVCHENKO,
 M.Kh., red.; SOKOLOVSKIY, A.N., red.; TSYBENKO, K.Ye., red.;
 KOVAL'SKIY, V.F., tekhn.red.

[Practical collective farm encyclopedia] Kol'khoznaia proizvodstven-
 naia entsiklopediia. Izd. 2-oe, perer. i dop. Kiev, Gos. izd-vo
 sel'khoz. lit-ry USSR. Vol.2. Malina-Iashchur. 1957. 923 p.
 (Agriculture--Dictionaries) (MIRA 11:4)

BUZANOV, I.F., akademik

Unity of Soviet theory and practice in beet sowing. Dokl. Akad.
sel'khoz. 22 no.11:13-20 '57. (MIRA 11:4)
(Sugar beets)

BUZANOV, I.F., akademik; MAKSIMOVICH, A.Ye., kand. sel'skokhozyaystvennykh nauk; MAKOVETSKIY, K.A.

Using sodium trichloroacetate and isopropyl chlorophenyl carbamate in the control of monocotyledonous weeds on sugar beet fields. Dokl. Akad. sel'khoz. 23 no. 6:6-9 '58. (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly.
(Sodium acetate)
(Carbamic acid)
(Weed control)

BUZANOV, I.F.

Our most important objective. Nauka i zhyttia 9 no.10:26-27
0 '59. (MIRA 13:2)

1. Vitsa-president Ukrainskoy akademii sel'skokhozyaystvennykh
nauk.

(Ukraine--Sugar beets)

BUZANOV, Ivan Feoktistovich, akademik; VARSHAVSKIY, Boris Yakovlevich;
KUZ'MICH, Semen Iovlevich; PODTYKAN, Yakov Petrovich; PRISYAZHENYUK,
Prokopy Fedorovich; USHAKOV, Aleksandr Fedorovich; ONOPRIYENKO,
M.M., red.; MANOYLO, Z.T., tekhn.red.

[Growing sugar beets with the least expenditures of labor] Vy-
rashchivanie sakharnoi svekly s minimal'nymi zatratami truda.
Kiev, Izd-vo Ukrainskoi akad.sel'khoz.nauk, 1960. 91 p.

(MIRA 13:11)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.
Lenina i Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for
Buzanov).

(Sugar beets)

VLASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam. otv. red.; BUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELONE, L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.nauk, red.; TKACHENKO, F.A., kand.sel'skokhoz.nauk, red.; CHIZHENKO, I.A., kand.ekonom.nauk, red.; LESOVICHENKO, Ya.V., red.; MANOYLO, Z.T., tekhn.red.

[Vegetables and potatoes; works of scientific session, No.2]
Ovoshchnye kul'tury i kartofel'; trudy nauchnoi sessii, vypusk 2.
Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk, 1960. 132 p.

(MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut rasteniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Danilenko). 3. Chlen-korrespondent AN USSR (for Strona).
(Vegetable gardening) (Potatoes)

VLASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam.otv.red.;
BUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELONE,
 L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.
 nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.
 nauk, red.; TKACHENKO, P.A., kand.sel'skokhoz.nauk, red.;
 CHIZHENKO, I.A., kand.ekonom.nauk, red.; BLANINA, L.F., red.;
 VIDONYAK, A.P., khud.-tekhn.red.

[Problems in improving the quality of agricultural products; pro-
 ceedings of the scientific session] Voprosy uluchsheniia ka-
 chestva sel'skokhoziaistvennoi produktsii; trudy nauchnoi sessii.
 Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk. No.4. [Feeds and
 livestock products] Korma i produkty zhivotnovodstva. 1960. 143 p.
 (MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut
 rasteniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vse-
 soyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina i
 Ukrainskoy akademii sel'skokhozyaystvennykh nauk; Nauchno-issledo-
 vatel'skiy institut zhivotnovodstva Lesostepi i Poles'ya USSR (for
 Danilenko). 3. Chlen-korrespondent AN USSR (for Polyakov).
 4. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut raste-
 niyevodstva, selektsii i genetiki (for Strona).
 (Feeds) (Stock and stockbreeding)

BUZANOV, Ivan Feoktistovich, akademik; LESOVICHENKO, Ya.V., red.;
KVITKA, S.P., tekhn.red.

[Agrobiological characteristics of sugar beets] Agrobiologicheskie svoistva sakharnoi svekly. Kiev, Izd-vo Ukrainekoi akademii sel'khoz.nauk, 1960. 250 p.

(MIRA 14:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina i Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Buzanov).

(Sugar beets)

BUZANOV, I.F., akademik, otv.red.; MEL'NIK, M.K., agronom, red.; ORLOV, I.P., agronom, red.; FEDOROV, A.I., doktor sel'skokhoz.nauk, red.; TSYGURA, K.D., agronom, red.; SERDYUK, B.M., red.; MANOYLO, Z.T., khud.-tekhn.red.

[Production of sugar beet seeds] Semenovodstvo sakharnoi svekly. Kiev, Izd-vo Ukrainskoi akad.sel'khoz.nauk, 1960. 271 p.
(MIRA 14:1)

1. Kiyev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly.

(Sugar beets)

BUZANOV, I.F., laureat Leninskoy premii

Monospermous sugar beets in the field. Nauka i zhizn' 27 no.7:
21-24 J1 '60. (MIRA 13:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
sakharnoy svekly, vitse-prezident Ukrainskoy akademii sel'skok-
hozyaystvennykh nauk.
(Sugar beets)

BUZANOV, Ivan Feoktistovich, laureat Leninskoy premii

Scientists' contribution to agriculture. Znan. sila 35
no. 12:6-7 D '60. (MIRA 13:12)

1. Vitse-prezident Ukrainskoy akademii sel'skokhozyaystvennykh
nauk.
(Ukraine--Agricultural research)

SINYAGIN, I.I., akademik, red.; BUZANOV, I.F., akademik, laureat
Leninskoy premii, red.; MAZLUMOV, A.L., akademik, red.;
MAYSURIYAN, N.A., akademik, red.; VASILENKO, P.M., akademik,
red.; VASILENKO, P.M., akademik, red.; MANZHELIY, I.I., red.;
GORELIK, L.Ya., red.; ANTONOVA, N.M., tekhn. red.

[Achievements of science and advanced practices in sugar beet
growing] Dostizheniia nauki i peredovoi opyt po sveklovodstvu.
Moskva, Sel'khozgiz, 1961. 403 p. (MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
V.I.Lenina. 2. Uchenyy sekretar' sekti tekhnicheskikh kul'tur
Otdeleniya zemledeliya Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk im. V.I.Lenina (for Manzheliy).
(Sugar beet breeding)

BUZANOV, I.F., akademik, nauchnyy sotrudnik, laureat Leninskoy premii;
VARSHAVSKIY, B.Ya., nauchnyy sotrudnik; KUZ'MICH, S.I., nauchnyy
sotrudnik; PODTYKAN, Ya.P., nauchnyy sotrudnik; PRISYAZHENYUK, P.F,
nauchnyy sotrudnik; USHAKOV, A.F., nauchnyy sotrudnik; ONOPRIYENKO,
M.M., red.; VIDONYAK, A.P., tekhn.red.

[New technology of sugar beet cultivation] Novaia tekhnologiya
vozdeleyvaniya sakharnoi svekly. Kiev, Izd-vo Ukrainskoi akad.
sel'khoz.nauk, 1961. 27 p. (MIRA 15:4)

1. Kiyev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharney
svekly. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharney
svekly (~~for all~~ except Onopriyenko, Vidonyak). 3. Vsesoyuznaya akade-
miya sel'skokhozyaystvennykh nauk imeni V.I.Lenina i Ukrainskaya akade-
miya sel'skokhozyaystvennykh nauk (for Buzanov).
(Ukraine—Sugar beets)

ZOTOV, V.P.; MAKHINYA, M.M.; PARSHIKOV, M.Ya.; GAVRILOV, A.N.; SILIN, P.M.;
GOLOVIN, P.V.; KHEYZE, N.V.; BUZANOV, I.F.; KHELEMSKIY, M.Z.;
YAPASKURT, V.V.; SHARKO, A.P.; SANOV, N.M.; LITVAK, I.M.; IVANOV,
S.Z.; LEPESHKIN, I.P.; KLEYMAN, B.M.; YEPISHIN, A.S.; GOLUB, S.I.;
GERASIMOV, S.I.; GEUBE, V.R.; PASHKOVSKIY, F.M.; LITVINOV, Ye.V.;
BENIN, G.S.; IVANOV, P.Ya.; VINOGRADOV, N.V.; PONOMARENKO, A.P.;
ZHIDKOV, A.A.; KOVAL', Ye.T.; KARTASHOV, A.K.; NOVIKOV, V.A.

Sixtieth birthday of A.N.Shakin, Director of the Central
Scientific Research Institute of the Sugar Industry. Sakh.
prom. 35 no.7:33 JI '61. (MIRA 14:7)
(Shakin, Anatolii Nikitovich, 1901-)
(Sugar industry)

USIK, Gavriil Yevtikhiyevich[Usyk, H.IE.], kand. sel'khoz. nauk;
BUZANOV, I.F., akademik, red.; KATRENKO, K.A., red.;
POTOTSKAYA, L.A.[Potots'ka, L.A.], tekhn. red.

[Biological principles underlying the cultivation practices
for tomatoes in Podolia] Biologichni osnovy agrotekhniki
pomidoriv na Podilli. Kyiv, Derzhsil'hospvydav URSR, 1962.
103 p. (MIRA 16:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V.I.Lenina (for Buzanov).

(Podolia--Tomatoes)

BUZANOV, I.F., red.; VARSHAVSKIY, B.Ya., red.; ORLOVSKIY, N.I., red.;
PODTYKAN, Ya.P., red.; SHEVCHENKO, V.N., red.; POZHAR, Z.A.,
red.; AREF'YEV, T.I., red.; USHAKOV, A.F., red.; MAKSIMOVICH,
A.Ye., red.; SIDOROV, A.A., red.; DANIKOVA, M.G., red.;
SERDYUK, B.M., red.; LAPCHENKO, K.P., ~~tekhn.~~ red.

[Basic conclusions of research work in 1959-1960] Osnovnye vy-
vody nauchno-issledovatel'skikh rabot za 1959-1960 gg. Kiev,
Izd-vo UASKhN, 1962. 308 p. (MIRA 16:4)

1. Kiev. Vsesoyuznyy nauchno-issledovatel'skiy institut sa-
kharnoy promyshlennosti. 2. Deystvitel'nyy chlen Vsesoyuznoy
akademii sel'skokhozyaystvennykh nauk im.V.I.Lenina (for
Buzanova).

(Sugar beets--Research)

BUZANOV, I.F.; SAMBUROV, V.I.; YEMETS, G.M.; ORLOVSKIY, N.I.;
NEGOVSKIY, N.A.; FEDOROV, A.I.; GREKOV, M.A.; KURBATOV,
S.T.; MEL'NICHUK, A.N.; TONKAL', Ye.A.; GORNAYA, V.Ya.;
ROZHDESTVENSKIY, I.G.; SIDOROV, A.A.; KUDARENKO, F.F.;
BROVKINA, Ye.A.; GELLER, I.A.; DOBROTVORTSEVA, A.V.;
VARSHAVSKIY, B.Ya.; KUTSURUBA, N.V.; KUZ'MICH, S.I.;
PRESNYAKOV, P.V.; USHAKOV, A.F.; SHEVCHENKO, V.N.;
KHUCHUA, K.N.; PETRUKHA, Ye.I.; POZHAR, Z.A.; SHAPOVALOV,
P.T.; AREF'YEV, T.I.; GRIGOR'YEVA, A.I., red.; BALLOD,
A.I., tekhn. red.

[Sugar beets] Sakharnaia svekla. Moskva, Sel'khozizdat,
1963. 487 p. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sa-
kharnoy svekly. 2. Nauchnyye sotrudniki Vsesoyuznogo
nauchno-issledovatel'skogo instituta sakharney svekly
(for all except Grigor'yeva, Ballod).
(Sugar beets)

MARINCHIK, A.F.; BUZANOV, I.F.; NOVITSKAYA, Yu.Ye.;

Effect of the concentration of the nutrient solution on the water balance, state of pigments and the productivity of sugar beets as related to the climatic conditions. Fiziol. rast. 10 no.6:625-633 N-D '63. (MIRA 17:1)

1. All-Union Scientific Research Sugar Beet Institute, Kiyev.

ACC NR: AP6023874

SOURCE CODE: UR/0109/66/011/007/1285/1294

AUTHOR: Averbukh, T. G.; Buzanova, L. K.; Vasil'yev, A. M.; Gliberman, A. Ya.

ORG: none

TITLE: Electric modulation of lateral photoemf

29
B

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1285-1294

TOPIC TAGS: photo emf, photoelectric effect, lateral photoelectric effect, *photoeffect*

ABSTRACT: So far the lateral-photoeffect cells have been investigated under the conditions of a constant signal; G. Wallmark (Proc. IRE, 1957, 45, 4, 474) mentioned a possibility of obtaining an alternating lateral photovoltage. The present article describes a theoretical and experimental investigation of a lateral-photoeffect cell modulated electrically by superposing an external alternating voltage on the p-n-junction voltage; weak illumination is assumed ($AkT/q = 30-50$ mv). It is found that: (1) The experiments have shown that the parameter $\lambda = I_n(\rho/W) / (AkT/q)$ should not exceed 2.5-3 (for the photocells having $R = 20$ kohms and $A = 1.7$) in order to warrant the validity of the reported formulas; (2) The plot of light-spot coordinate vs. lateral modulated emf is linear, within 6%, when the spot moves away from the photocell center by a distance under 0.5 d; at 0.8 d, the nonlinearity is 12%; (3) The photocell sensitivity is proportional to the square of the photocell-

Card 1/2

UDC: 621.387.2.01

SOV/79-28-10-20/60

AUTHORS: Gavrilov, B. G., Buzanov, M. I.

TITLE: Thermocatalytic Transformations of α -Methyl Naphthalene
(Termokataliticheskiye prevrashcheniya α -metilnaftalina)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2723-2724;
(USSR)

ABSTRACT: The decomposition of alkyl naphthalene at a higher temperature is of interest for the chemical nature of the cracking process of hydrocarbons (Ref 1). The transformations of the alkyl naphthalenes at lower temperature and with activated loams offered some very interesting reactions of these hydrocarbons that are in direct relation to the transformations of petroleum in nature (Refs 2, 3). The α -methyl naphthalene was used for the experiments. 400 gr of it were heated in the autoclave with the same quantity of activated loam ("Gumbrine") at 350° for 8 hours with the pressure increasing to 31 atmospheres absolute pressure; 8 m³ gas of the following composition were obtained:

Card 1/3

Thermocatalytic Transformations of α -Methyl Naphthalene SOV/79-28-10-20/60

The specific weight was 0,000723 gr/cm³. The liquid product of the catalysis was extracted together with the catalyst by benzene. After the solvent had been driven off the fractions mentioned in the table were separated by distillation. The transformation of α -methyl naphthalene amounted to 69,2 %. The β -methyl naphthalene fraction was oxidized with 5 % nitric acid into β -naphthoic acid. After filtration and re-crystallization a compound was obtained that had a melting point of 180,5°. The final products were methane, naphthalene, β -methyl naphthalene, dimethyl naphthalene, and dinaphthyl. The formation of naphthalene and dimethyl naphthalene is explained by the reaction $2C_{10}H_7CH_3 \rightarrow C_{10}H_8 + C_{10}H_6(CH_3)_2$, which is normal under these conditions. The results of the experiments prove the mechanism of the petroleum processes in the earth, which on the one hand points to the simplification of the petroleum material to the methane, and on the other hand to the complex formation of the highly condensed hydrocarbon. There are 1 table and 3 references, 3 of which are Soviet.

Card 2/3

Thermocatalytic Transformations of α -Methyl Naphthalene SOV/79-28-10-20/60

ASSOCIATION: Leningradskiy gosudarstvennyy universitet
... (Leningrad State University)

SUBMITTED: July 29, 1957

Card 3/3

BUZANOV, S.; GRAUDIN, K. [Grandins, K.]

Building of communism and the development of the unified transportation system. Vestis Latv ak no.4:15-26 '62.

BUZANOV, S. P.

Zonnye stantsii prigorodnykh uchastkov zheleznnykh dorog. (Zonal stations of suburban railroads). (Moskva, Transzheldorizdat), 1941. 102 p.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1962, Unclassified.

BUZANOV, S. P.

Vzaimodeistvie stantsii i vagonoremontnykh ustroystv. [Interact of stations and car-repair facilities]. Moskva, Gos. transp. zhel-dor. izd-vo, 1947. 51 p. diagrs.
DLC: TF606.B8

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

BUZANOV, S. P.
USSR/Railroad Stations 4602.0208
RR Repair Facilities 4602.0330
Bibliography

Oct 1947

"Coordination of Stations and Car Repair Installations" 1 p

"Zh-d Transport" No 10

Prof S. Zemblinov, Dr of Tech Sciences, and I. Aksenov, Candidate in Mechanical Sciences review favorably Prof S. Buzanov's "Coordination of Stations and Car Repair Installations 'Transzheldorizdat'," 1947, 52 pp. Reviewers consider book useful in throwing light on a very important problem.

LC

10643

BUZANOV, S. P.

Buzanov, S. and Karpov, A. "Current slope-gradings and their designing,"
Zh.-d. transport, 1948, No. 12, p. 23-29

SO: U-3264, 10 April 1953 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

BUZANOV, S.P.; KARPOV, A.M.; RODIMOV, B.A., redaktor; VERINA, G.P.,
tekhnicheskiy redaktor.

[Planning and arrangement of railroad hump yards] Proektirovanie
sortirovochnykh gorok i polugorok i ikh ustroistvo. Moskva, Gos.
transp. zhel-dor. izd-vo, 1954. 238 p. (MLBA 8:2)
(Railroads--Stations)

BUZANOV, S.P., professor; SHTEFKO, I.V., kandidat tekhnicheskikh nauk.

Using through raised tracks for unloading coal in specialized stations. Vest. TSNII MPS 15 no.4:51-53 D '56. (MLRA 10:2)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta imeni I.V. Stalina.
(Railroads--Stations)

BUZANOV, S.P., professor, doktor tekhnicheskikh nauk; ZEMBLINOV, S.V.,
professor, doktor tekhnicheskikh nauk.

Some problems in the development of stations and junctions. Zhel.
dor.transp.38 no.12:32-35 D '56. (MIRA 10:2)
(Railroads---Stations)

BUZANOV, S.P.

3-8-8/34

AUTHOR: Buzanov, S.P., Professor, Doctor of Technical Sciences

TITLE: From the History of Transport Vuzes (Iz istorii transportnykh vuzov)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 8, pp. 45-51 (USSR)

ABSTRACT: The article tells of conditions under which the students worked at the few RR engineer institutes existing in the first years after the revolution and describes the author's visit to Lenin in 1922. The need for well-trained RR engineers, and the establishment of new RR engineering schools at Rostov na Donu (1929), Dnepropetrovsk and Tbilisi (1930), Tashkent (1931) are mentioned.

In 1934, the Institute of Military RR Transport Engineers at Novosibirsk (Novosibirskiy institut voyennykh inzhenerov zheleznodorozhnogo transporta) and in 1939, the Institute of RR Engineers (Institut inzhenerov zheleznodorozhnogo transporta) at Khabarovsk were opened. New laboratories were organized at the MEMIIT and the Dnepropetrovsk Institute.

Card 1/4

Scientific-research work was conducted at the RR institutes which greatly contributed to the reorganization of Soviet

From the History of Transport Vuzes

3-8-8/34

transport. The renowned scientists, transportation specialists, active members of the USSR Academy of Sciences V.N. Obraztsov, S.P. Syromyatnikov and G.P. Perederiy, and the Member-Correspondents T. S. Khachaturov, B.N.Vedenisov, N.M. Belyayev, A.V. Gorinov and A. Ye. Alekseyev lectured at the railroad institutes.

To check the tendency to split training into too many specialities, the Scientific - Technical Council of the Ministry of Communications in 1950 recommended that specialization be limited to the following 6 fields: exploitation, building, mechanical, electrical - (automatics, telemechanics), power-engineering and engineering-economy. It was also in 1950 that the Moscow Institute of Transportation and Economics (Moskovskiy transportno-ekonomicheskii institut) was founded.

The 20th Party Congress devoted much attention to the further development of science and the participation of professors and instructors of higher educational institutions in solving scientific problems. This has resulted in establishing the leading training and research ground for electrical transportation at the Dnepropetrovsk Institute of RR Engineers. The Administration of the Stalino Railroad (Upravleniye stalinskoy zheleznoy dorogi) has placed at the Institute's disposal an

Card 2/4

3-8-8/34

From the History of Transport Vuzes

electric locomotive of the type "BJI -22 M".

The second leading training ground for diesel locomotives is attached to the Tashkent Institute of RR Engineers.

The raising of RR engineer qualifications required in 1955 the consolidation of the Moscow Institutes MIIT and MEMIIT.

At Leningrad the Institute of RR Engineers (Institut inzhenerov zheleznodorozhnogo transporta) has been united with the Institute of Electrical RR Engineering (Elektrotekhnicheskii institut inzhenerov zheleznodorozhnogo transporta).

Recently, the Ural Electro-Mechanical Institute of RR engineers at Sverdlovsk (Ural'skiy elektro-mekhanicheskii institut inzhenerov zheleznodorozhnogo transporta) has been opened. At Gomel' the Belorusskiy Institute of RR Engineers (Belorusskiy institut inzhenerov zheleznodorozhnogo transporta) has been established.

At the present time, 238 professors and 1013 dotsents are working at the RR institutes. The institutes' scientific workers have written about 350 textbooks during the last 25 years, the total number of copies published amounts to 3 millions. In 1946 - 1956 more than 40,000 engineers graduated from the Soviet transportation vuzes (about 4,000 a year).

Card 3/4

From the History of Transport Vuzes

3-8-8/34

ASSOCIATION: The Moscow Institute of RR Engineers imeni I.V.Stalin
(Moskovskiy institut inzhenerov zheleznodorozhnogo transporta
imeni I.V.Stalina)

AVAILABLE: Library of Congress

Card 4/4

BUZANOV, S.P., prof.; KARPOV, A.M., kand.tekhn.nauk

Improving the shape of humps and half humps. Zhel.dor.transp.
40 no.4:49-50 Ap '58. (MIRA 13:4)
(Railroads--Hump yards)

BUZANOV, S.P., prof., doktor tekhn.nauk

Safety measures and their reflection in engineering
specifications for designing yards and terminals of
standard-gage railroads. Trudy MIIT no.105:219-233 '58.

(MIRA 11:9)

(Railroads--Safety measures)

(Railroads--Yards)

BUZANOV, S.P., prof., doktor tekhn.nauk; SHTEFKO, I.V., kand.tekhn.nauk

Elevated through-tracks used for unloading coal in specialized
freight yards. Trudy MIIT no.105:234-242 '58. (MIRA 11:9)
(Railroads--Track) (Railroads--Yards)

BUZANOV, S.P. prof., doktor tekhn.nauk; BAKALOV, M.M., kand.tekhn.nauk
(Dnepropetrovsk)

Improvements in operating technology and layout of oreloading
yards. Zhel.dor.transp. 41 no.6:41-44 Ja '59.

(MIRA 12:9)

(Railroads--Yards) (Loading and unloading)
(Ores--Transportation)

BUZANOV, S.P., prof.; SHTEFKO, I.V., dots.; RIDEL', E.I., dots.;
TARAKHOVSKAYA, N.K., red.; MUKHA, S.Ya., tekhn. red.

[Transportation of container and piece goods on pallets in
foreign countries] Perevozka tarno-shtuchnykh грузов na poddonakh
za rubezhom. Moskva, Vses.in-t nauchn. i tekhn.informatsii, 1960.
79 p. (MIRA 15:1)

(Unitized cargo system) (Railroads—Freight)

BUZANOV, S.P., prof., doktor tekhn.nauk

Mechanization and automatization of the cleaning of CTC
controlled switches in stations. Zhel.dor.transp. 42
no.7:54-58 J1 '60. (MIRA 13:7)
(Railroads--Switches) (Automatic control)

BUZANOV, S.P., prof., doktor tekhn. nauk; KARPOV, A.M., kand. tekhn. nauk

Various types of the simplest classification yard systems.
Zhel. dor. transp. 45 no.3:33-37 Mr '63. (MIRA 16:6)

(Railroads--Hump yards)

BUZANOV, S.P., prof., doktor tekhn. nauk; KARPOV, A.M., kand. tekhn. nauk

Automation of classification humps. Zhel. dor. transp. 46
no.4:88-91 Ap '64. (MIRA 17:6)

BUZANOV, S.P., prof., doktor tekhn. nauk; BELOV, V.N., kand. tekhn. nauk
(Tashkent); ISHIMBAYEV, V.I., kand. tekhn. nauk (Tashkent); TULYA-
GANOV, U.T., kand. tekhn. nauk (Tashkent)

Valuable book on station and junction layouts. Zhel. dor. transp.
46 no.10:92-93 0 '64. (MIRA 17:11)

BUZANOV, S.P., prof., doktor tekhn. nauk; STEPANOV, N.G., inzh.

Layout of one-way classification yards. Zhel. dor. transp. 47 no.8:
28-31 Ag '65. (MIRA 18:9)

BUZANOV, Stepan Petrovich, prof.; KARPOV, Aleksandr Mikhaylovich,
dots.; RYTSAREV, Mikhail Alekseyevich, inzh.; FREDE,
V.Yu., red.

[Design of mechanized and automated classification systems]
Proektirovanie mekhanizirovannykh i avtomatizirovannykh
sortirovochnykh ustroystv. Moskva, Transport, 1965. 231 p.
(MIRA 18:4)

BUZANOV, V.

Pilot licenses are obtained here. Grazhd.av. 18 no.12:12-15 D
'61. (MIRA 15:1)

1. Spetsial'nyy korrespondent "Grazhdanskoy aviatsii", Buguruslan.
(Buguruslan--Flight training)

BUZANOV, Vitaliy

It happened in August. Grazhd.av. 18 no.10:23 0 '61.

(MIRA 15:5)

(Space flight)

BUZANOVA, A.

Active members of our library. Mast.ugl. 9 no.11:27 N '60.

(MIRA 13:12)

1. Zaveduyushchaya bibliotekoy Kadiyevskogo Dvortsa kul'tury imeni
Gor'kogo.

(Kadiyevka—Libraries)

[illegible]

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

ultra-thin photo. and photoelectric effect

ABSTRACT: The equation for potential difference across an infinite p-n junction set up by G. Lurcyski [U. Appl. Phys., 1981, 31, 6, 1088], is applied in the present article, to the case of a finite-size p-n junction. Results are obtained for the case of a p-n junction with a constant carrier concentration in the n-region and a linearly increasing carrier concentration in the p-region. The results are compared with the results of other authors.

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ACCESSION NR: AP5002909

compared with $AkT/q = 30-50$ mv, where A is the parameter. The voltage parameter characterizing the Boltzmann factor of the temperature dependence of the current is $A = kT/q$.

contacts are formulated. Experimental results are reported for the width of the depletion layer of the contacts.

The results of the calculations are compared with the experimental data. The results of the calculations are compared with the experimental data.

ABSTRACT

1. The results of the calculations are compared with the experimental data.

Core 1.2

BUZANOWSKI, Zygmunt; CHOJNOWSKA, Irena; MYSZKOWSKI, Leopold; SADOWSKI, Janusz

Electrophoretic pattern of proteinuria in normal labor and in the course of pregnancy toxemia. Ginek. Pol. 36 no.4:379-383 Ap '65.

1. Z II Kliniki Położnictwa i Chorob Kobietych AM w Warszawie (Kierownik: prof. dr. med. I. Roszkowski).

HULANSKI, A.

Operational experiences with the hot treatment of alloy steels. p. 15.

KOHASZATI LEFKI. (Magyar Fenyaszati es Kohasziati Egyesulet) Budapest, Hungary.
Vol. 10, no. 9.

Monthly List of East European Accessions (SEAL) 10, Vol. 9, no. 1, Jan. 1960

Uncl.

BUZANSZKY, Albin

Experimental vacuum casting of light metal alloys. Koh lap 95 no.9:
Suppl.: Ontode 13 no.9:205-207 S '62.

1. Csapeli Femmu.

RUMANIA

CORRENI, E., Lieutenant-Colonel, Pharmacist; MIHAESCU-NIGRIM, Maria,
BENES, S., Lieutenant-Colonel, Medical Corps; and BUZARNESCU, G., Assistant
Medical

"Effect of Administration of Immune Homologous Antitissular Serum in Irra-
diated Mice"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 481-487

Abstract: In mice, injection of homologous immune sera of spleen or liver
homologous tissue antibodies, all tended to exert a protective effect on
subsequent radiation as to onset*and total mortality. 3 tables, 2 graphs.

*of radiation sickness

1/1

BUZAS, A.

GEOGRAPHY & GEOLOGY

MOKELINIAI PRANEIMAI.

BUZAS, A.: Some dynamic characteristics of the climate of the
Lithuanian SSR. In Russian. p. 10,

Vol. 7, 1958.

Monthly List of East European Accession (EEAI) LC Vol. 8, No 3.
March 1959, Unclass.

BUTLER

The antidiuretic hormone content of the cerebrospinal fluid of infants with Leiner's disease. J. Ivády and O. MD
Buzás (Med. Univ., Szeged, Hung.). *Ann. Paediat.* 179.
31-4 (1952) (in French).—Infants having erythroderma des-
quaminosa had an increased antidiuretic hormone content
paralleling the course of the disease. Barbara R. Murray

①

Buzas 8

IVADY, Gyula, Dr.; BUZAS, Geza; SZORADY, Istvan, Dr.

Mechanism of action of hip. Gyermekgyógyászat 8 no.9-10:299-302
Sept-Oct 57.

1. A szegedi Orvostudományi Egyetem Gyermekklinikájának (Igazgató:
Waltner Karoly dr. egyet. ny. r. tanár) Gyógyszerészeti Intézetének és
Egyetemi Gyógyszertárának (Igazgató: David Lajos dr. egyet. ny. r.
tanár közleménye.

(FLOWERS

hip extracts, pharmacol. & mechanism of action (Hun))

~~BUZAS, Geza~~ (Szeged, Bocskay u.5, Hungary); MATKOVICS, Bela (Szeged, Oskola
u.5, Hungary)

The effect of alcohol, acetaldehyde and diffuse light on the reaction
of the horse-radish peroxidase-ascorbic acid system. Acta biol Hung 12
no. 1:13-15 '61.

1. Department of Medicinal Plants and Drugs (Head: I. Novak) and
Department of Organic Chemistry (Head E. Kovacs), University of
Szeged.

NOVAK, Istvan; BUZAS, Geza; MINKER, Emil; KOLTAI, Matyas; SZENDREI, Kalman

Crystalline active ingredients of Ruta graveolens. Acta pharm.
Hung. 35 no.2:90-95 Mr '65.

BUZAS, I.

"The Scientific Association of Engineers and Technicians of Rumania supports the utilization of waste in refineries for products for mass consumption.

p. 43. (PETROL SI GAZE, vol. 6, no. 1, Jan. 1955. Bucuresti, Rumania.)

SO: Monthly List of East European Accessions (EEAL), LC.

Vol. 4, No. 5, May 1955, Uncl.

Bu2AS, I.

1400

11. Oxidation-reduction titrations with luminescent indicators, I-V (in German) -- I. Erdely, I. Buzas.
(Acta Chimica Academiae Scientiarum Hungaricae)
Vol. 6, 1955, No. 1-2, pp. 77-130, 3 figs., 27 tabs.)

CH

Hypohalogenites, potassium cyanoferrate(III) and arsenite ions and by an indirect method chromium(III) ions were measured by using a standard solution of hydrogen peroxide in the presence of lucigenine (dimethyl diacridylum nitrate) indicator. Arsenic(III), antimony(III), sulphite, sulphide, thiosulphate, cyanide and thiocyanate were measured by means of sodium hypobromite standard solution in the presence of luminol (3-aminophthalic hydrazide) indicator substance. Arsenite, antimonite, thiosulphate and hydrazine sulphate were determined with an alkali hypochlorite solution as titrant using luminol indicator in alkaline media. Hypochlorites and hypobromites were measured selectively, even in the presence of halogenites and halogenates, in alkaline media by means of an arsenite measuring solution and luminol chemiluminescent indicator. By employing hydrazine sulphate solution as titrant the hypochlorites and hypobromites are easily reduced in alkaline media. The interaction of excess titrant and lucigenine indicator in the presence of air produces chemiluminescence, marking the end point, suitable for quantitative determination.

① PM

The solution is allowed to cool and $\text{Na}_2\text{F}_2\text{O}_4$ (4 g)
is added. The resulting solution is stirred with

BUZAS, I.

Distr: 4E2c

Determination of vanadium with the use of reducing measuring solutions. I. Direct determination of vanadium by ascorbinometry. L. Erdey, E. Bodor, and I. Buzas

(Tech. Univ., Budapest). *Acta Chim. Acad. Sci. Hung.* 7: 277-85(1955).—An empirical method for the detn. of V by reduction with ascorbic acid has been developed. The method is rapid, but since the results depend on the duration of the titration, a preliminary titration should be made. The recommended conditions are: neutralize the soln. of 50-200 mg. of V_2O_5 to phenolphthalein with *N* NaOH, then acidify with 10 ml. *N* H_2SO_4 and adjust the vol. to 100 ml. Titrate with ascorbic acid soln. (8.9 g./l. stored under CO_2) until the soln. becomes bluish green. Add 0.2 ml. of indicator (0.1 g. 4-amino-4'-methoxydiphenylamine in 10 ml. H_2O) and continue to a clear blue end point. The precision is about $\pm 0.5\%$. II. Indirect determination of vanadium

1/1 7114

by ascorbinometry. *Ibid.* 287-92.—V(V) can be detd. indirectly with ascorbic acid by making use of a soln. of $FeSO_4$, free of ferric ions, under the following conditions: Neutralize the soln. of 50-200 mg. of V_2O_5 with NaOH soln. with phenolphthalein as the indicator. Acidify with 15 ml. of *N* HCl and add 5 ml. of $FeSO_4$ soln. (prepd. by reducing a soln. of 28 g. $FeSO_4 \cdot 7 H_2O$ and 100 ml. of *N* H_2SO_4 dild. to 1 l. in a Cd reductor). Then adjust the vol. to 100 ml. and titrate with 0.1 *N* ascorbic acid soln. as described in part I. The precision of this method is about 0.1%. The titration should be carried out rapidly in a cold soln. III.

Q

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P. 12 HS L.

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CIA-RDP86-00513R000307820003-8"

visible chemiluminescence with hydrazine (3-aminophthalhydrazide) and other substances, so that the appearance of luminescence can be used to

NaClO, using 10 ml of 0.01 per cent hydrazine. The reaction is slower with NaClO than with HBrO, and it is necessary to titrate until the luminescence

II. Determination with sodium hypochlorite.

(*ibid.*, 1955, 8 (1-2), 93-114). The titration of AsO_4^{3-} , SbO_4^{3-} , SO_3^{2-} , S^{2-} , SO_3^{2-} , CN^- and SCN^- can be carried out with 0.1 N or 0.01 N NaClO in alkaline solution using 1 ml of 0.01 or 0.001 per cent hydrazine as luminous indicator. The method is especially convenient for the titration of AsO_4^{3-} .

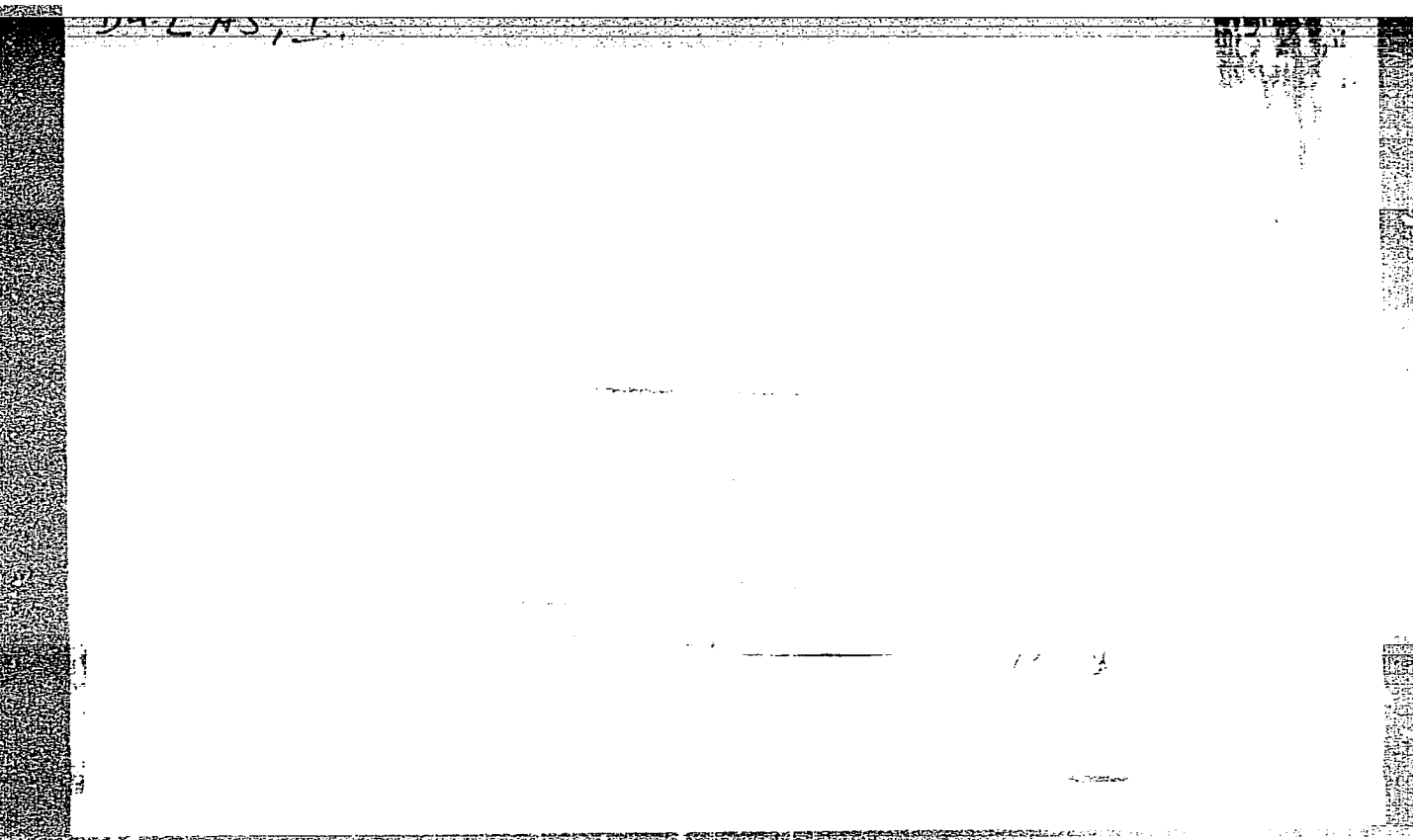
V. Determination with hydrazine

(*ibid.*, 1955, 8 (1-2), 137-150). Luminous chemiluminescence with H_2O_2 but not with $HOCl$ or BrO_2^- in alkaline solution. In the presence of hydrazine, the reaction of H_2O_2 with ClO^- and BrO_2^- can be used for the determination of these ions. Hydrazine as luminous indicator.

A. B. DENSHAW

"APPROVED FOR RELEASE: 06/09/2000

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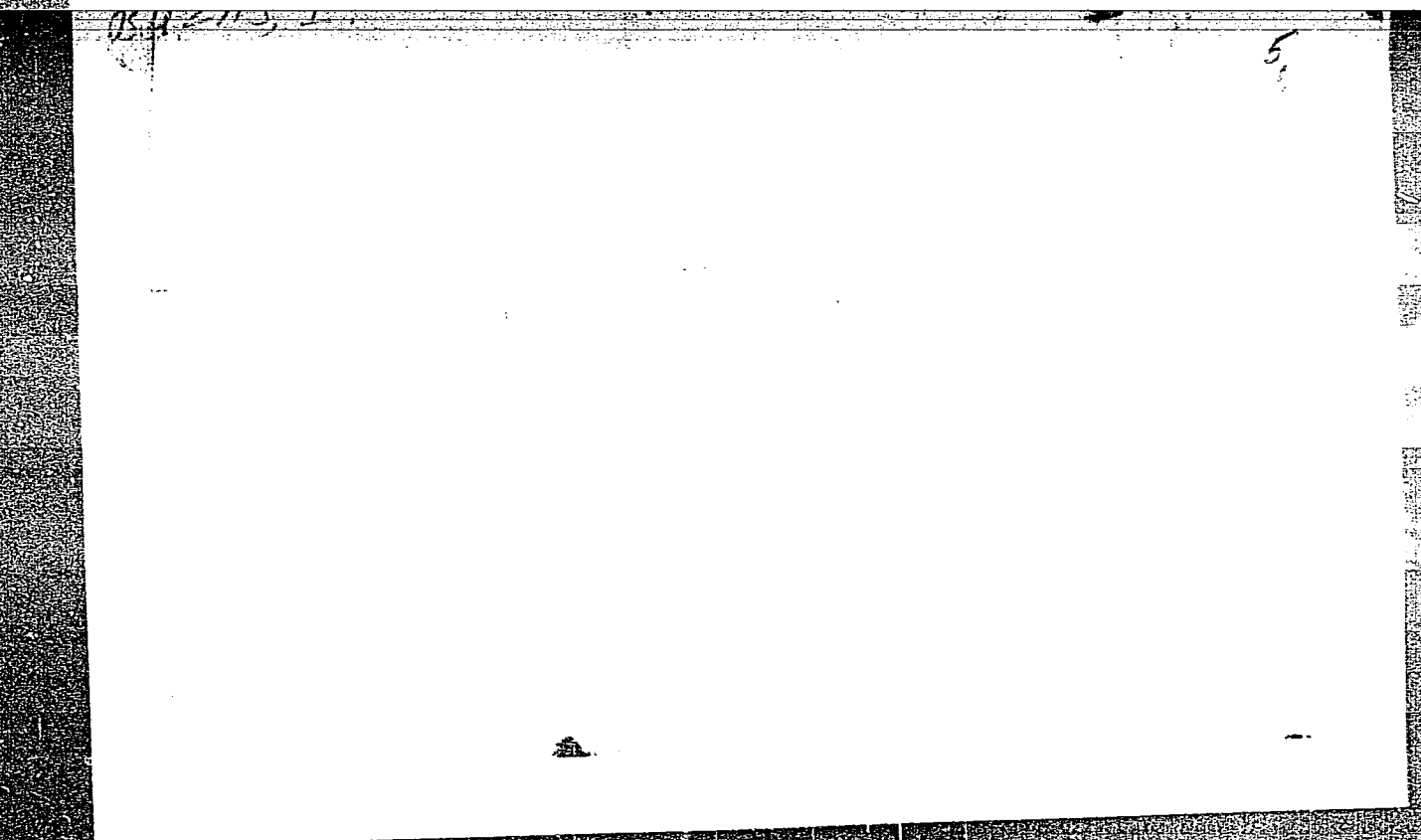


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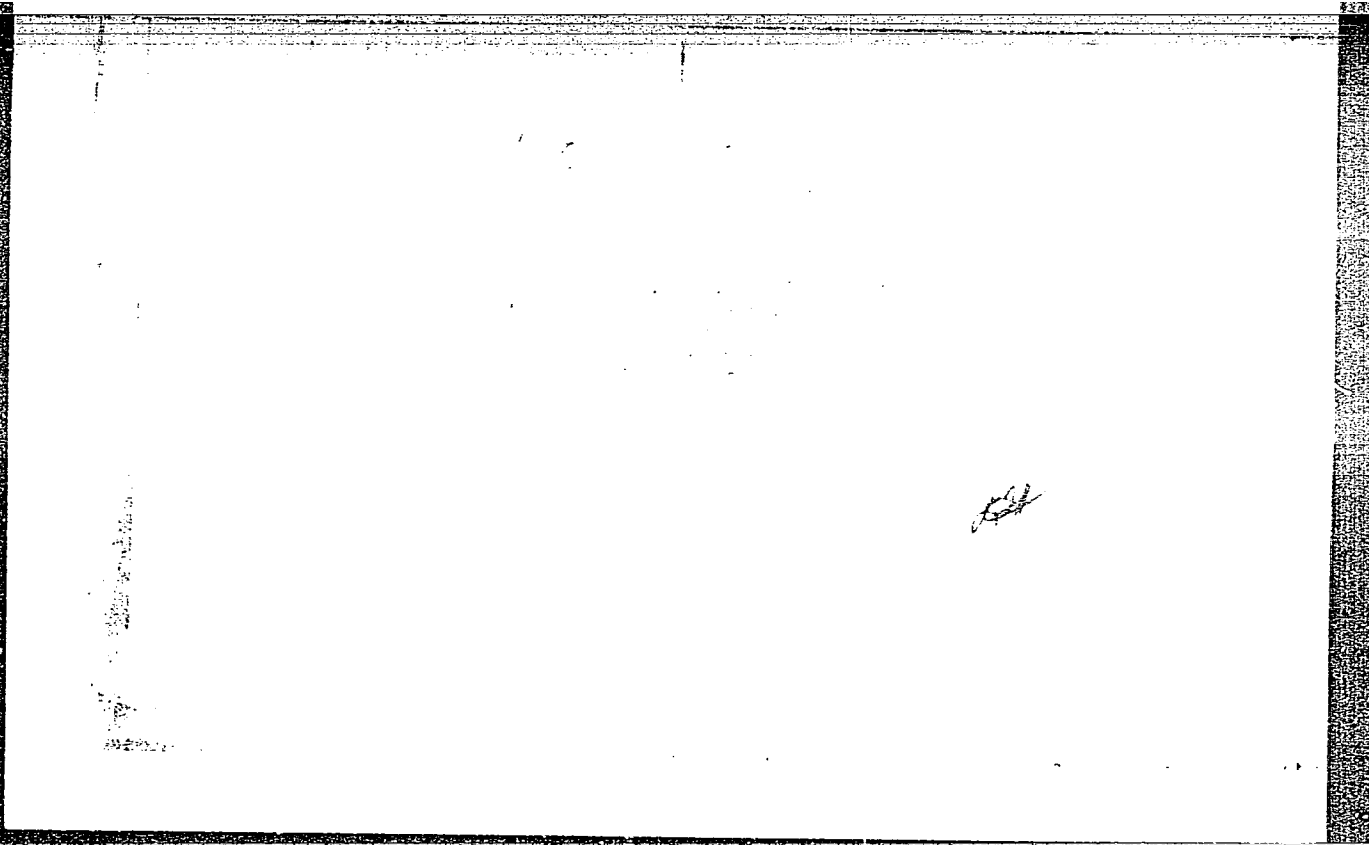


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BUZAS, I.

"Indirect determination of stronger oxidizer by ascorbic acid." In
German, p. 1

PERIODICA POLYTECHNICA. (Budapesti Muszaki Egyetem) Budapest, Hungary,
Vol. 3, No. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

ISAIU, Ion, correspondent; RADUTA, Gh.; BUCAS, Gh.; CRACIUN, I.

Enrichment of knowledges. Constr Buc 16 no. 743:4
4 April '64.

L 63740-65 EWT(1)/IJP(e)

ACCESSION NR: AT5021739

HU/2502/64/041/01-0037/0040

AUTHOR: Erdelyi, Laszlo Erdelyi, L. (Doctor, Professor) Budapest, Hungary
Erdelyi, Laszlo Erdelyi, L. (Doctor, Professor) Budapest, Hungary

TITLE: Contribution to the luminescence mechanism of luciferase

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 17, no. 1, 1972, pp. 37-42

TOPIC TAGS: luminescence, light emission, laboratory optic instrument, analysis

ABSTRACT: Term: article. The luminescence of luciferase is studied in various conditions with the aid of a laboratory optic instrument. The results are discussed in connection with the mechanism of the luminescence of luciferase.

L-63740-65

ACCESSION NR: AT5021739

ASSOCIATION: Institut für Allgemeine Chemie der Technischen Universität, Budapest.
Institute for General Chemistry at the Technical University.

NR REF SOV: 001

OTHER: 001

BUZAS, I., ing.

Passing from thermal cracking to viscosity reduction. Petrol
si gaze 16 no.2:114-118 F '65.

L 42288-66
ACC NR: AP6031673 SOURCE CODE: RU/0007/65/016/002/0114/0118
AUTHOR: Buzas, I. (Engineer) 30
ORG: none B
TITLE: Transition form thermal cracking to viscosity reduction
SOURCE: Petrol si gaze, v. 16, no. 2, 1965, 114-118
TOPIC TAGS: petroleum refining, fluid viscosity
ABSTRACT: A survey of the literature, briefly outlining the nature of thermal cracking and the principal methods used, with emphasis on the method of viscosity reduction, is followed by a discussion of the conversion of installations for thermic cracking to operation by means of viscosity reduction. In the particular example for which data are given, motorene yields of up to 40 percent were obtained after conversion. Orig. art. has: 3 figures and 4 tables. [JPRS]
SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 001 / SOV REF: 001
OTH REF: 005

Cord 1/1 *ldh*

0919 0273

BUZAS, L.

HUNG

9. Ascorbinometric determination of silver ions (in German) — L. Erdey, L. Buzas, (Acta Chimica Academiae Scientiarum Hungaricae — Vol. 4, 1954, No. 2-4, pp. 195-209, 3 figs., 8 tabs.)

A direct titrimetric method was evolved for the determination of silver ions. The determination can be carried out with an error of $\pm 0.01\%$ applying ascorbic acid as a measuring solution in the presence of varianin blue base as a redox indicator. The optimal conditions of the procedure were established. The almost neutral or slightly acid liquid containing silver ions was titrated with a 0.1 % solution of ascorbic acid in the presence of varianin blue indicator. When approaching the end point, the acidity of the end point of the solution was reduced by adding sodium acetate. Among other ions, mainly substances yielding a precipitate with silver ions, moreover, strong oxidizing and reducing agents interfere. These effects can be eliminated by the various methods described. The process proved suitable for the determination of the silver content in silver alloys, for thermals, for the titrimetric silver determination in cyanide baths and waste solutions of sodium thiosulphate.

17/10/54

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Buzas, L.

1. Graphical kinematic analysis methods, application of rotated vectors. (In English) L. Buzas, *Acta Technica Academiae Scientiarum Hungaricae*, Vol. 21, 1958, No. 1-2, pp: 87-111. 16 figs.

2

Three graphical methods of kinematic analysis have been compared from the standpoint of practical applicability. A general survey of the principles is given on the basis of which the motion of plane mechanisms may be determined promptly and precisely by a strictly graphical method of rotating vectors. Practical applications of the method are illustrated by two-link kinematic chains and some simple mechanisms constructed from these chains.

JW
1/1

smw

BUZAS, Lajos, egyetemi docens

Mechanisms as means of improving production capacity. Finomtechnika
2 no. 12:359-363 D '63.

1. Budapest Technical University.

BUZAS, Lajos, egyetemi docens

Dimensioning of cams. Pt.1. Finommechanika 3 no.2:57-63 F '64.

1. Budapest Technical University.

BUZAS, Lajosné, a kémiai tudományok kandidátusa

Development of gravimetric analysis. Kem tud közl MTA 22
no.3/4:335-346 '64.

1. Chair of General Chemistry, Budapest Technical University.

SIMALJAK, J.; MILLEROVA, A.; JABLONSKY, I.; LASKOVA, O.; BUKACOVA, H.; BUZAS, M.

Effect of several common light sources on color perception. Cesk. ofth.
14 no.6:420-424 Dec 58..

1. Ustav pre lekarsku fyziku UK Bratislava, prednosta prof. MUDr. RNDr.
Z. Krizan.

(COLOR VISION

eff. of various light sources on color perception (Cz))

(ILLUMINATION

same)

KALDOR, Antal, dr.; POGATSA, Gabor, dr.; BUZASI, Gyorgy, dr.

Data on the "cholagogue" activity of carbutamide. Magy belorv. arch.
14 no.1:21-23 '61.

1. A Budapesti Orvostudományi Egyetem II sz. Belklinikájának (Igazgató:
Dr. Gomori Pál, egyetemi tanár) közleménye.

(CARBUTAMIDE pharmacol)

(CHOLAGOGUES AND CHOLERETICS pharmacol)